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DATE MAILED: 08/23/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,112	04/14/2004	Edward E. Kelley	FIS920040068	3111
30743	7590 08/23/2004		EXAM	INER
WHITHAM, CURTIS & CHRISTOFFERSON, P.C.			HESS, DANIEL A	
11491 SUNS. SUITE 340	ET HILLS ROAD		ART UNIT	PAPER NUMBER
RESTON, V	A 20190		2876	

Please find below and/or attached an Office communication concerning this application or proceeding.

_		ok		
		Application No.	Applicant(s)	
Office Action Summary		10/709,112	KELLEY ET AL.	
		Examiner	Art Unit	
		Daniel A Hess	2876	
 Period for	The MAILING DATE of this communication ap	opears on the cover sheet w	ith the correspondence address	
A SHO	PRTENED STATUTORY PERIOD FOR REP IAILING DATE OF THIS COMMUNICATION	· · · · · · · · · · · · · · · · · · ·	IONTH(S) FROM	
after S - If the p - If NO p - Failure Any re	sions of time may be available under the provisions of 37 CFR 1 IX (6) MONTHS from the mailing date of this communication, bened for reply specified above is less than thirty (30) days, a repend for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by statuply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ply within the statutory minimum of thin d will apply and will expire SIX (6) MOI tte, cause the application to become A	ty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status				
1)⊠ F	Responsive to communication(s) filed on 14.	Anril 2004		
·	·	is action is non-final.		
′=	Since this application is in condition for allow		ters, prosecution as to the merits is	
-	closed in accordance with the practice under	•	•	
Dispositio	on of Claims	·		
4)⊠ (Claim(s) <u>1-35</u> is/are pending in the applicatio	n.		
•	a) Of the above claim(s) is/are withdra			
5) × (Claim(s) <u>30 and 31</u> is/are allowed.			
6)⊠ (Claim(s) 1-29 and 32-35 is/are rejected.			
7) 🗌 (Claim(s) is/are objected to.			
8)□ (Claim(s) are subject to restriction and/	or election requirement.		
Applicatio	n Papers			
9)□ T	he specification is objected to by the Examin	ner.		
10)[] T	he drawing(s) filed on is/are: a) ac	cepted or b) objected to	by the Examiner.	
A	Applicant may not request that any objection to the	e drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the corre	•	•	
11)∐ T	he oath or declaration is objected to by the E	Examiner. Note the attache	d Office Action or form PTO-152.	
riority un	nder 35 U.S.C. § 119			
-	.cknowledgment is made of a claim for foreig] All b)□ Some * c)□ None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1	I. Certified copies of the priority documer	nts have been received.		
2	2. Certified copies of the priority documer	nts have been received in A	Application No	
•	B. Copies of the certified copies of the pri-	ority documents have been	received in this National Stage	
3	application from the International Burea	au (PCT Rule 17.2(a)).		
	ee the attached detailed Office action for a lis	, , , , , , , , , , , , , , , , , , , ,		

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date _____.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____

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DETAILED ACTION

Remarks

This action is in response to the initial filing of 4/14/2004, which has been placed in the electronic file of record, and to which this is a first action on the merits.

The examiner also notes that while many of the claims are rejected only under 35 USC 112 (see below), an expansion and detailed clarification of the meaning of 'unpredictable' could potentially move the prosecution forward in the instant case.

A final search of course would be necessary.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-29 and 34-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In particular, the applicant uses the phrase "unpredictable" in claims 1, 21 and 34, upon which all of the above listed claims depend.

The reason for the examiner's objection is that the phrase 'unpredictable' is open to various interpretations. Unpredictable could mean 'pseudorandom', in which case there is an underlying mathematical formula designed to simulate randomness.

Unpredictable could also 'be determined by one of the duration a keypad is pressed, the duration between two keypad entries or the duration between card activation and

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communication with a card reader.' This second definition is based on the specification [0009] and might be suggest to the applicant by the examiner.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 32 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rahman et al. (US 5,478,994).

Rahman teaches a secure credit card system (see column 1, lines 35-55; column 4, lines 30-62) wherein random numbers are generated sequentially and then compared against the expectations of a host computer. For financial transactions such as those involving a credit card the host computer would very typically belong to the financial institution which issued the card. As Rahman recites (column 4, lines 40-50) a comparison is made in order to confirm. A counter is present (figure 1, ref. 26); if the number of cycles is taken to be one, then the limitations of the claims are met.

Allowable Subject Matter

Claims 30 and 31 are allowed.

The prior art of record fails to teach or fairly suggest the detailed manner of data exchange involving linear feedback shift register settings to achieve card security as recited detail in claim 30. The only detailed use of LFSR known to this examiner is by the instant applicant and the instant assignee.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel A Hess whose telephone number is (571) 272-2392. The examiner can normally be reached on 8:00 AM - 5:00 PM M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G Lee can be reached on (571) 272-2398. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel A Hess Examiner

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DANIEL STCYR
PRIMARY EXAMINER